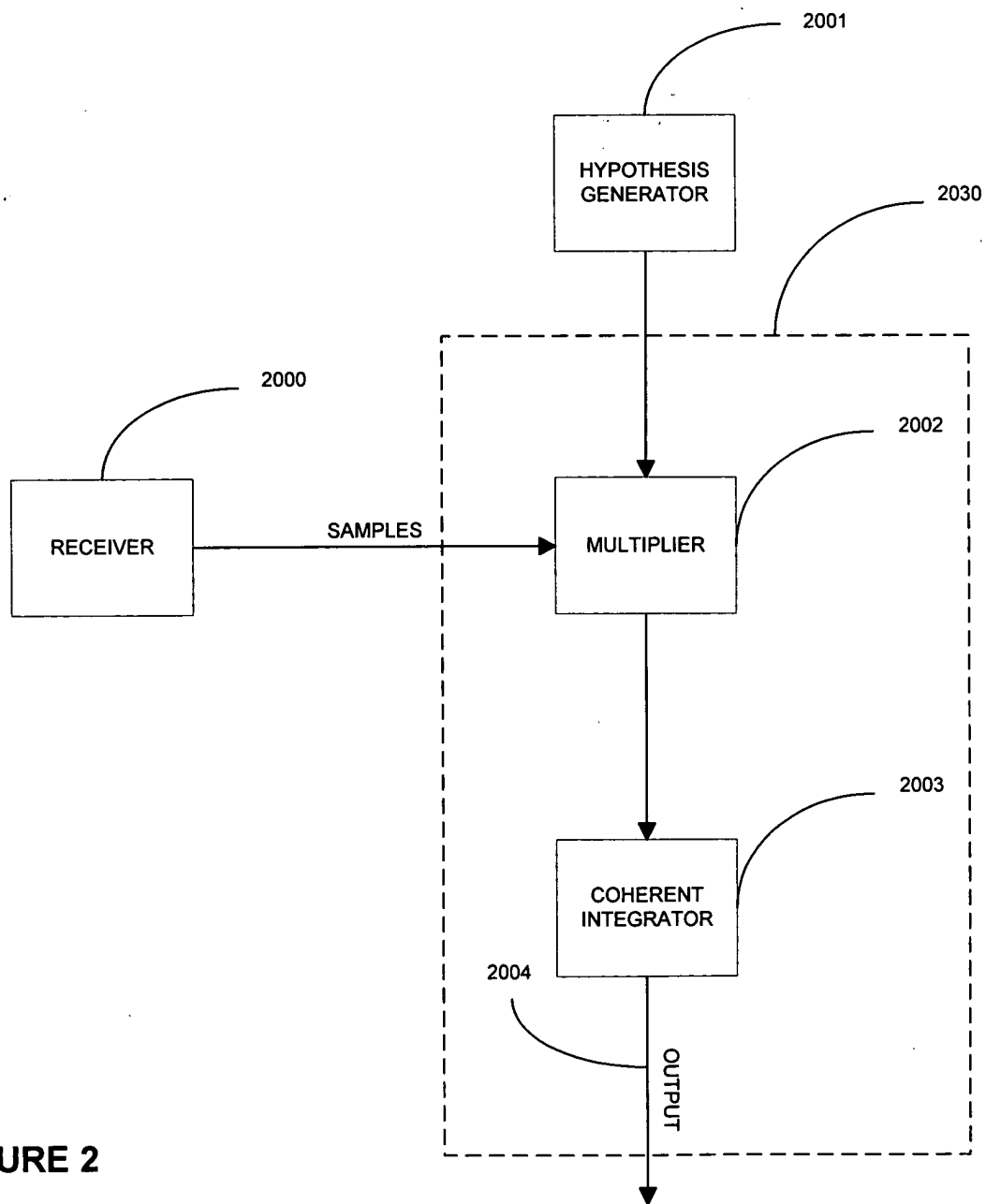


FIGURE 1



```

graph TD
    BEGIN([BEGIN]) --> 10[RECEIVE SEGMENT OF SAMPLES]
    10 --> 11[GENERATE HYPOTHESES]
    11 --> 12[SELECT HYPOTHESIS]
    12 --> 13[FORM PRODUCT BETWEEN SAMPLES AND HYPOTHESIS]
    13 --> 14[COHERENTLY INTEGRATE PRODUCT OVER DESIRED DURATION]
    14 --> 15[DERIVE AND SAVE CORRELATION VALUE FOR HYPOTHESIS]
    15 --> 16{MORE HYPOTHESES ?}
    16 -- No --> END([END])
    16 -- Yes --> 12

```



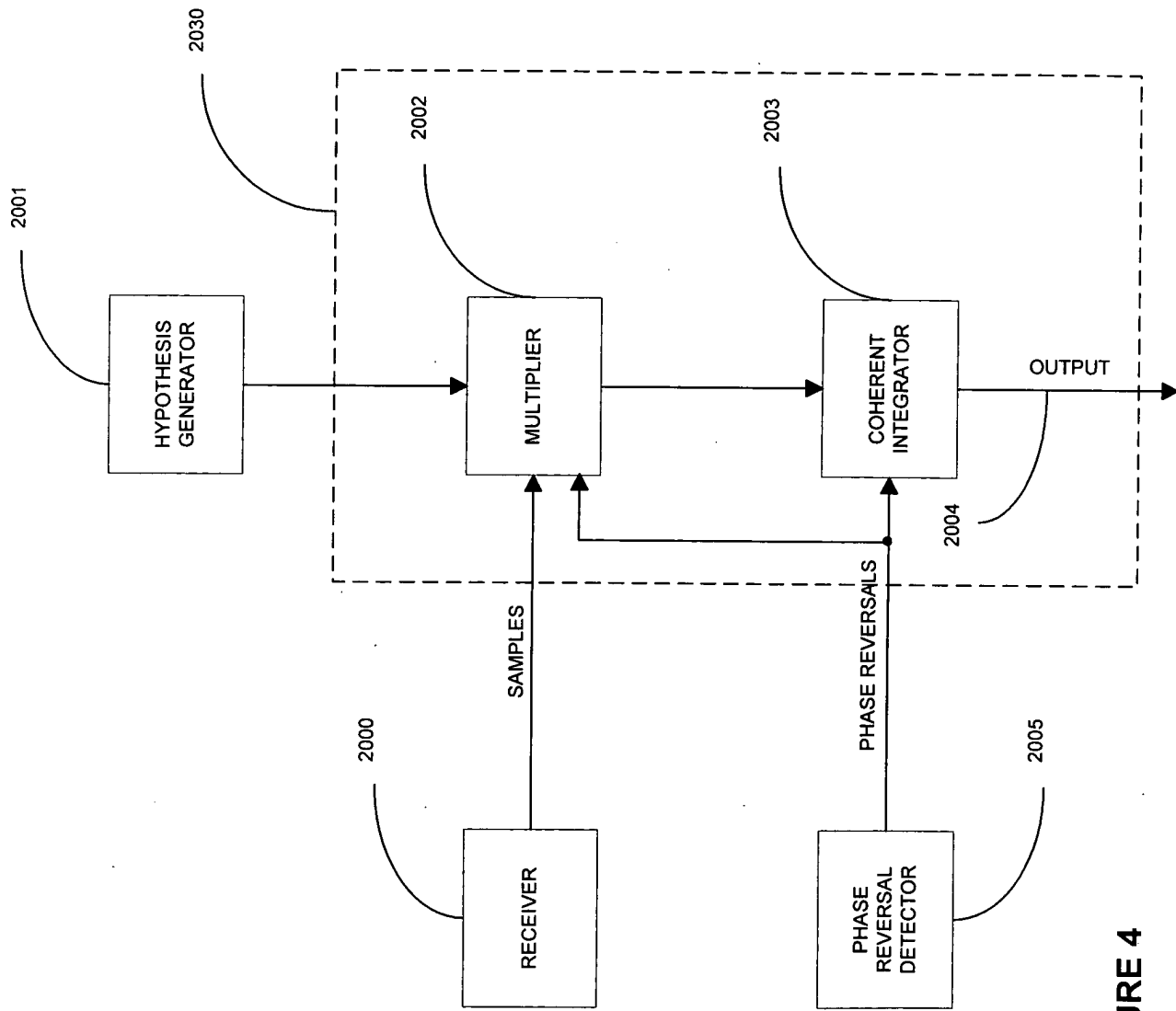


FIGURE 4

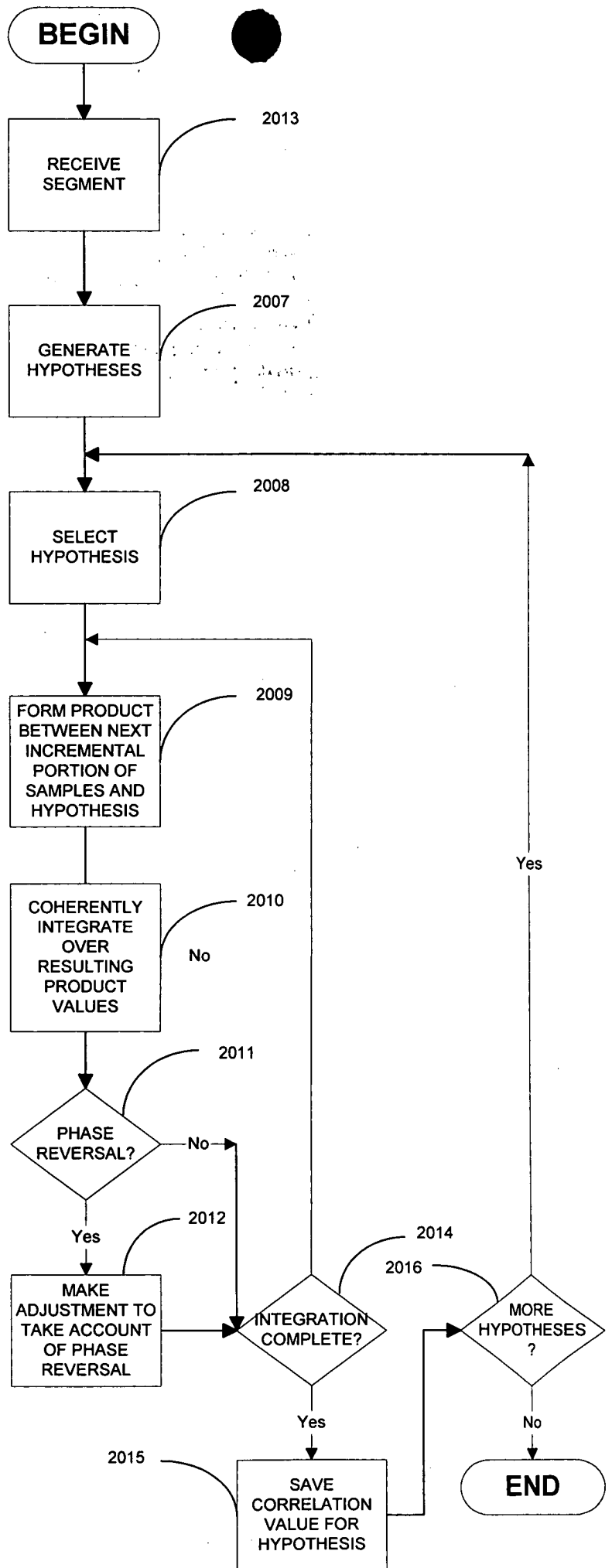


FIGURE 5

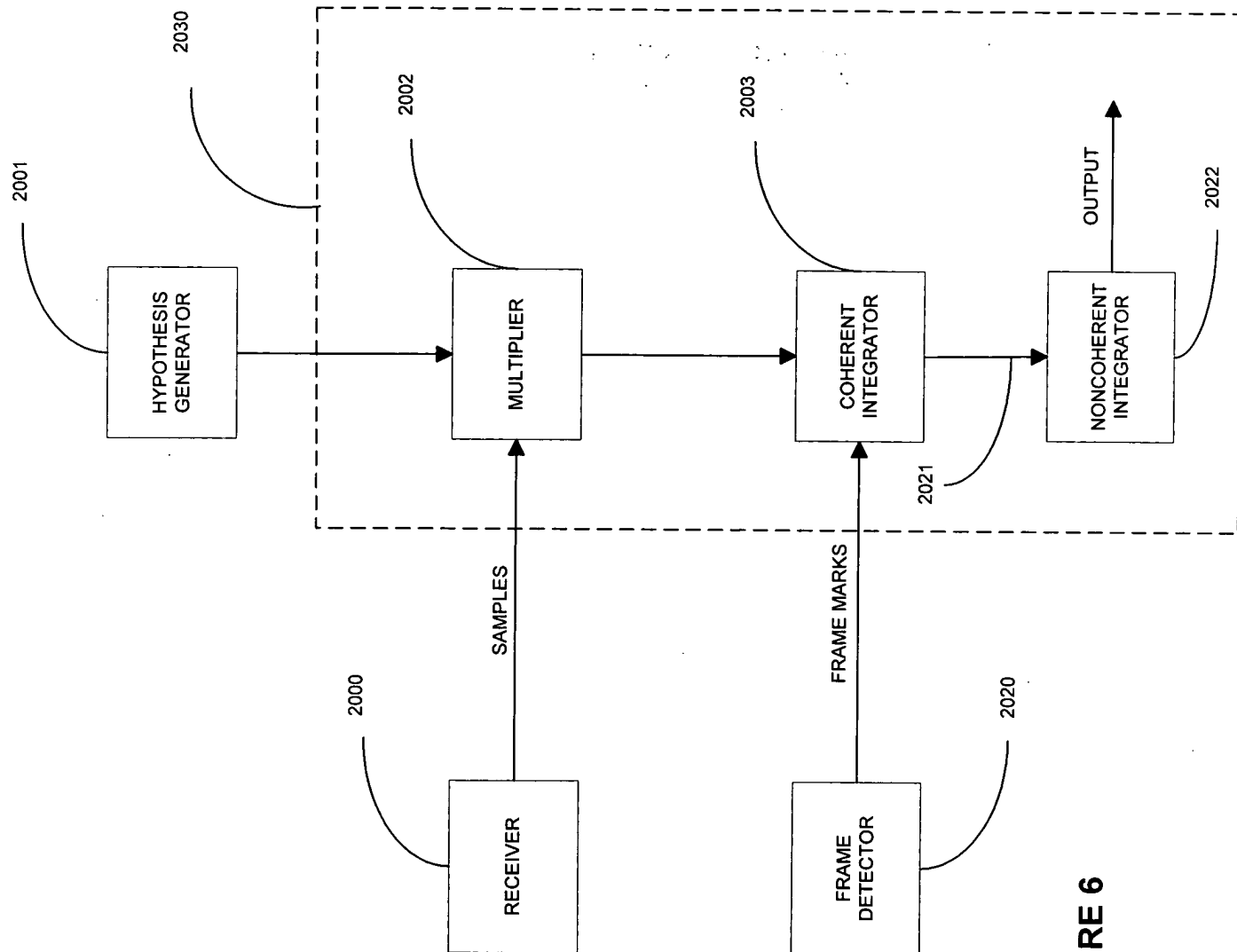


FIGURE 6

092136 0300

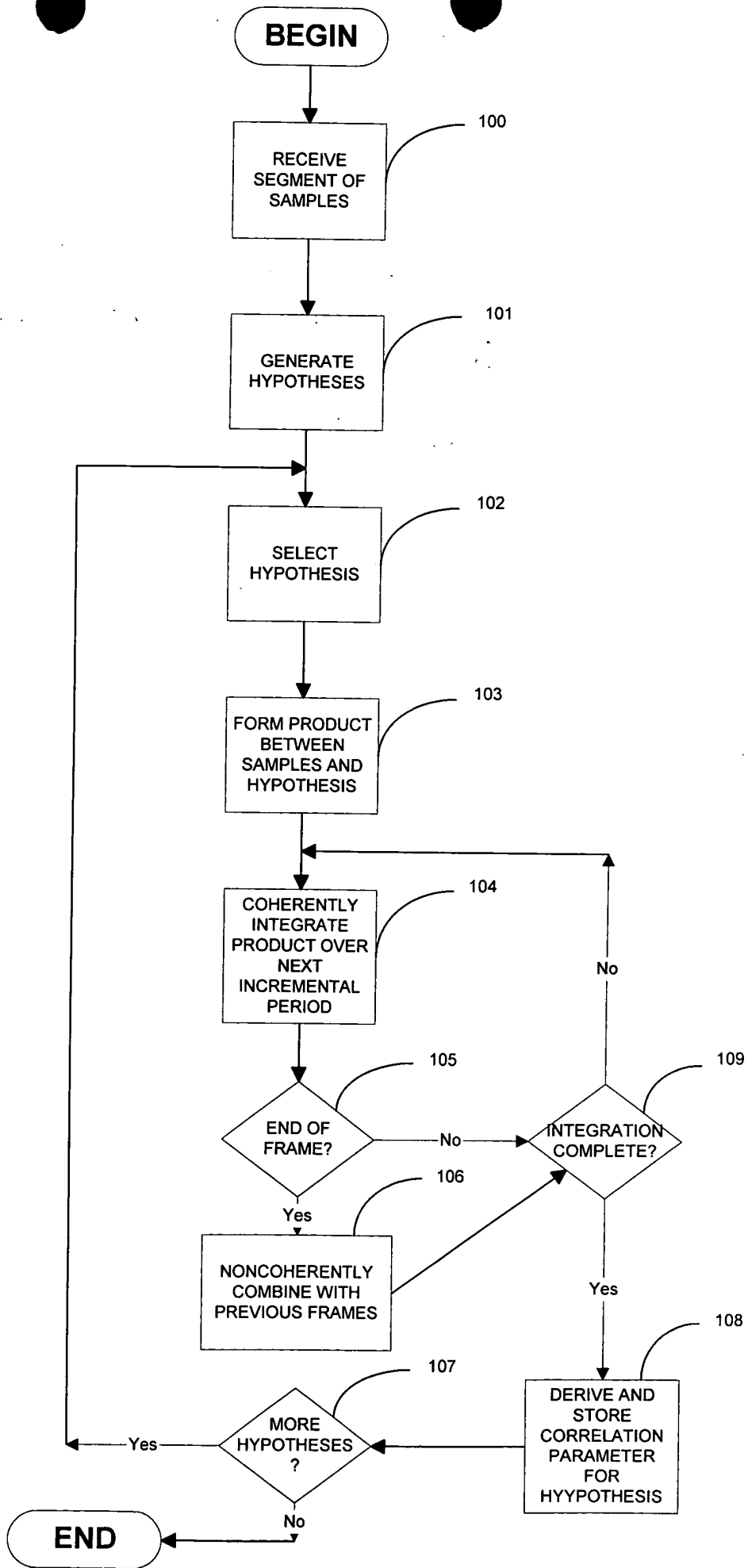


FIGURE 7

60000-9273250

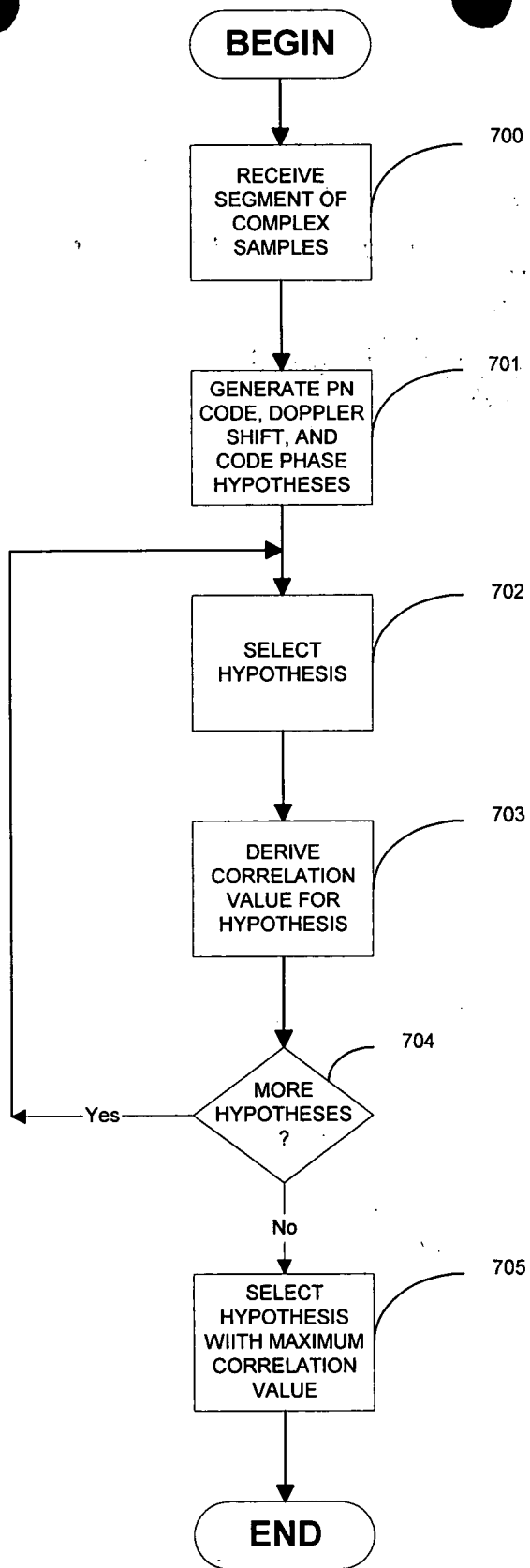


FIGURE 10

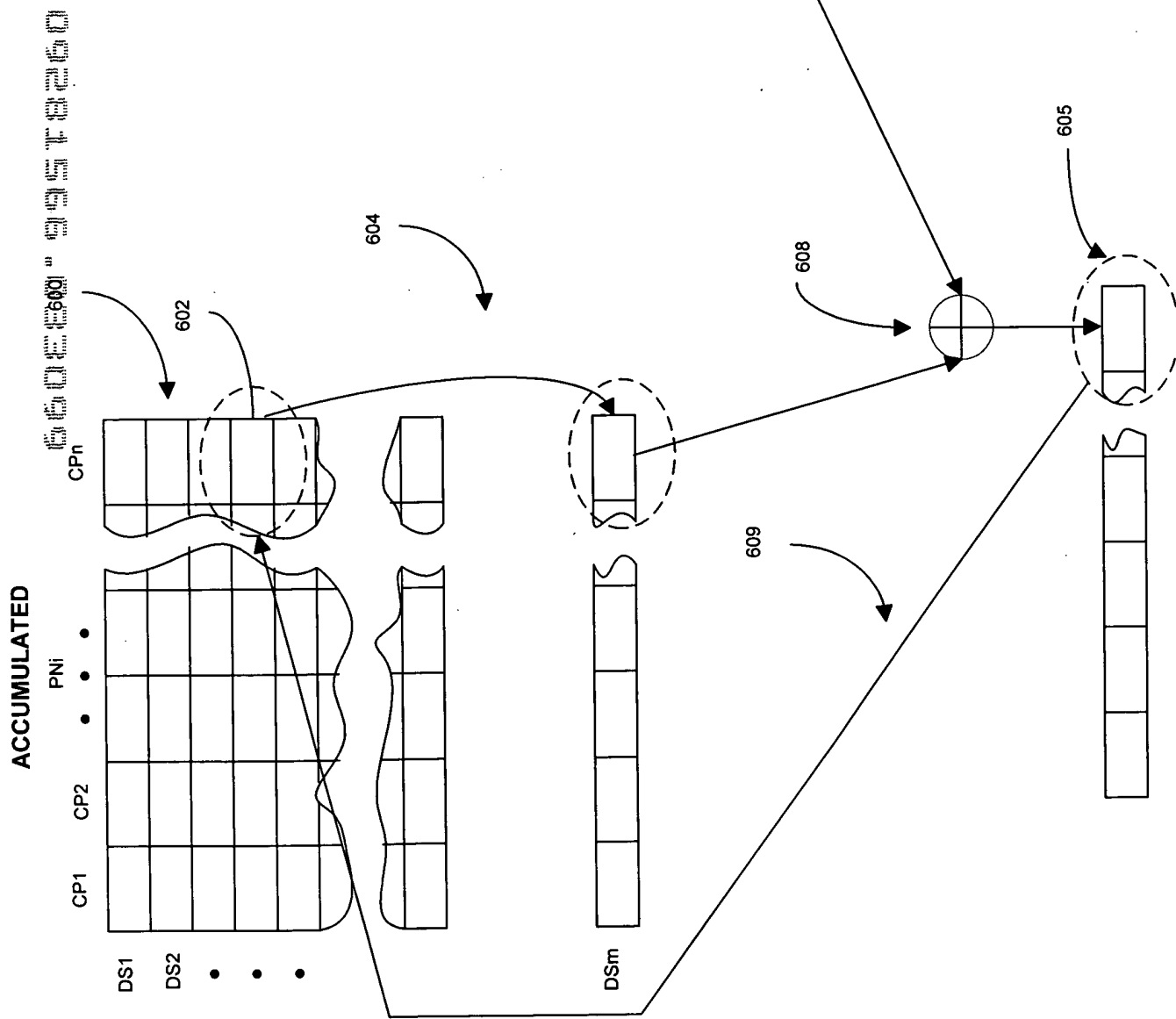


FIGURE 12

G

CIRCULARLY
SHIFT PN CODE
REGISTER BY
SHIFT VALUE
DERIVED FROM
SELECTED CODE
PHASE
HYPOTHESIS

1007

FORM I AND Q
COMPONENT
SUM OF
PRODUCTS, SI
AND SQ

1008

ADD TO ANY
RESULTS
INVOLVING
SAME
HYPOTHESES
FOR PREVIOUS
SUBSEGMENTS
AND STORE

1009

ALTERNATIVE C

SET COMPLEX
PHASOR
HYPOTHESIS
FLAG

1020

REPLICATE
RUNNING
TOTALS FOR
EACH PHASOR
HYPOTHESIS

1033

ALTERNATIVE A

PHASE FLIP?

1014

Yes

No

FLIP SIGN OF
COMPLEX
PHASOR

Yes

No

ALTERNATIVE C

COMPLEX PHASOR
HYPOTHESIS FLAG
SET?

1034

YES

ANY FURTHER
PHASE
HYPOTHESES?

1035

YES

NO

ANY FURTHER
DOPPLER SHIFT
HYPOTHESES?

1012

Yes

No

ALTERNATIVE B

SAVE SQRT. OF
SUM OF
SQUARES FOR
HYPOTHESIS IN
TEMP. STORAGE
LOCATION FOR
HYPOTHESIS

1010

Yes

No

ZERO OUT
RUNNING SUMS
FOR
HYPOTHESIS

1016

1017

ANY FURTHER
CODE PHASE
HYPOTHESES?

Yes

No

H

1011

1012

I

J

FIGURE 13B

13A
13B
13C

09-156-0309

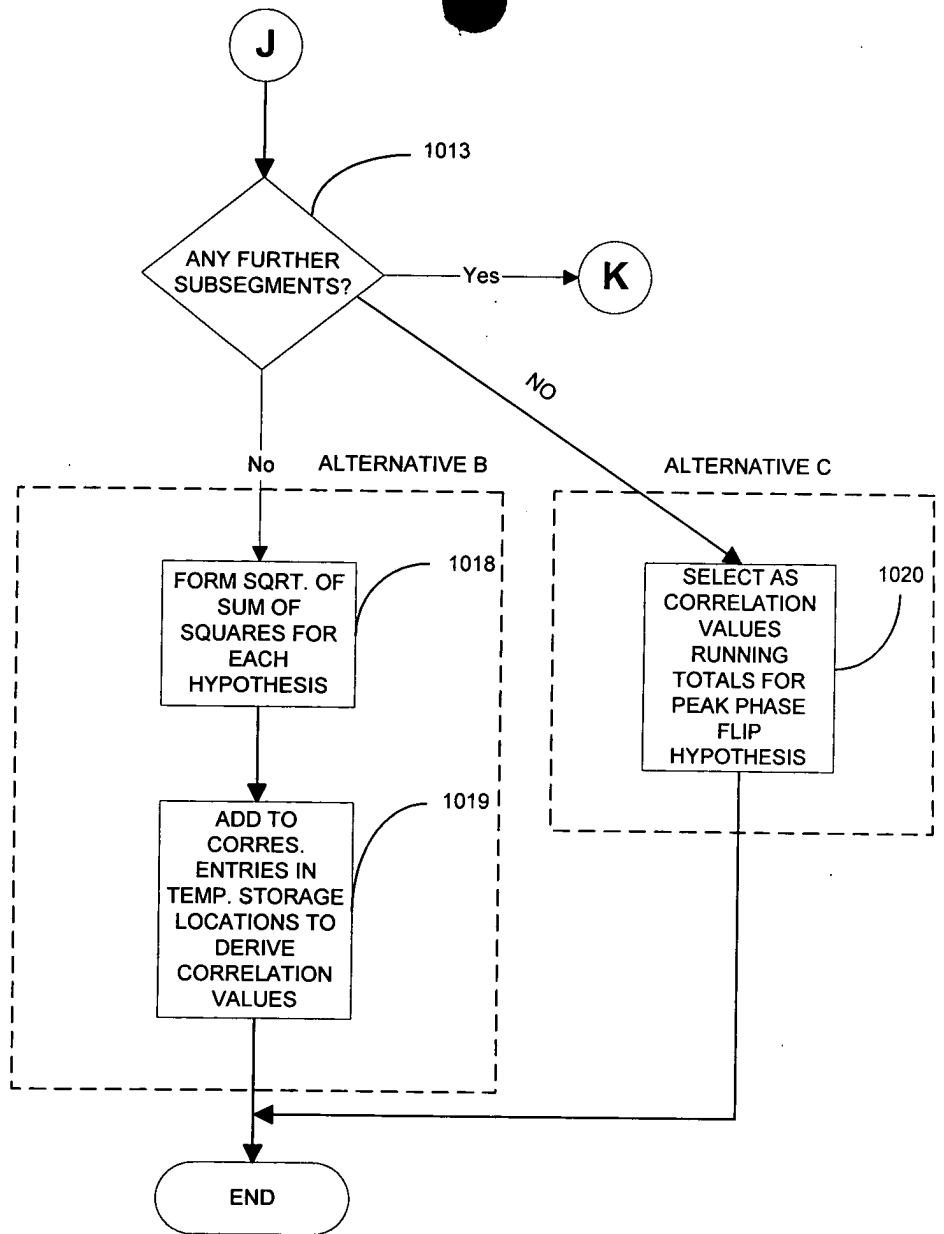


FIGURE 13C

13A
13B
13C